

Amendment After Final Rejection
Serial No. 09/822,447

Docket No. US010160

IN THE CLAIMS:

Kindly replace the claims of record with the following full set of claims:

1. (Currently amended) A method of making segments of a video, comprising:
 - providing video content that includes a series of video frames and reviewing the video;
 - sending a bookmark signal during review of the video to select a selected frame being displayed when the bookmark signal is sent;
 - identifying a characteristic feature of the selected frame and recording information corresponding to said frame on a storage medium; and
 - in response to said sending the bookmark signal, processing the video to define a segment of the video containing the selected frame by identifying segment starting point and segment endpoint boundaries, and storing at least a portion of the segment,wherein the starting point and endpoint of the segment are based on detecting ~~meaningful~~ changes of information in the audio, visual or transcript portion of the video with respect to the frame recorded information, in frames prior to and subsequent to the selected frame, respectively. ~~other than the characteristic feature of the selected frame, before and after the selected frame.~~
2. (Original) The method of claim 1, wherein the characteristic feature of the frame is obtained from a frame signature created using the visual, audio or text properties of the frame.
3. (Original) The method of claim 1, wherein the characteristic feature of the frame is its frame number.
4. (Original) The method of claim 1, wherein the characteristic feature of the frame is its time stamp in the video.

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5. (Canceled).

6. (Previously presented) The method of claim 1, wherein the information analyzed to detect changes is selected from the group consisting of DCT coefficients, color, edge, shape, silence, speech, music, close captioning, and audio content of the video, and combinations thereof.

7. (Previously Presented) The method of claim 1, wherein the segment is stored on the same medium as the video.

8. (Currently amended) The method of claim 1, further comprising:
storing wherein a predefined length of the video from the segment start point is stored.

9. (Original) The method of claim 1, wherein the segment start point is determined as a predefined length of the video before the selected frame.

10. (Original) The method of claim 1, wherein the stored segment contains at least one of EPG data, a frame of the segment, or transcript information from the segment and combinations thereof.

11. (Currently amended) A system for identifying segments of a video for later retrieval, comprising:

a bookmarker component constructed to operate in connection with a video player that can display the content of a video that includes a series of video frames;

the bookmarker being responsive to a signal to identify a selected frame of the video being displayed when the bookmark signal is received;

the bookmarker also being constructed to:

identify a characteristic feature of the selected frame and record information corresponding to said selected frame ~~characteristic feature~~ on a storage medium,

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to process the video to define a segment of the video containing the selected frame by identifying segment starting point and segment endpoint boundaries, and to send at least a portion of the segment containing the selected frame to a storage medium,

wherein the bookmarker includes an analysis engine constructed to detect ~~meaningful~~ changes of information in the audio, visual or transcript portion of the video with respect to the frame recorded information, in frames prior to and subsequent to the selected frame, respectively ~~other than the characteristic feature of the selected frame to determine starting points and endpoints of the segment.~~

12. (Previously Presented) The system of claim 11, wherein the characteristic feature of the selected frame is obtained from a frame signature created using the visual, audio or text properties of the frame.

13. (Original) The system of claim 11, wherein the characteristic feature of the frame is its frame number and the bookmarker is constructed to determine the frame number.

14. (Original) The system of claim 11, wherein the characteristic feature of the frame is its time stamp in the video and the bookmarker constructed to determine the time stamp in the video.

15. (Canceled).

16. (Original) The system of claim 11, wherein the analysis engine analyzes information selected from the group consisting of DCT coefficients, color, edge, shape, silence, speech, music, closed captioning and audio content of the video and combinations thereof.

17. (Original) The system of claim 11, wherein the bookmarker is constructed to record at least a portion of the segment on the same medium as the video.

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18. (Original) The system of the claim 11, wherein the bookmarker is constructed to record a predefined length of the video from the segment start point.

19-22. (Canceled).

23. (Currently amended) A method of processing electronically stored content, comprising:

electronically storing and displaying items of content, selected from the group consisting of videos, audio, images, text and combinations thereof and while displaying the content, in response to receipt of a bookmark signal, bookmarking a portion of the content item and storing information associated with the bookmarked content item, processing the content item to define a segment of the content item containing the portion by identifying segment starting point and segment endpoint boundaries and storing a selected segment of the content item having sufficient identifying information to identify the content item, then retaining on a storage device only the segment identifying the item and not the entire item, then at a later time, comparing the information identifying the item to identify that same item,

wherein the starting point and endpoint of the segment are based on detecting ~~meaningful~~ changes of information in the audio, visual or transcript portion of the video with respect to the stored information associated with the selected content item, prior to and subsequent to the selected content item, respectively before and after the bookmarked portion of the content item other than a characteristic feature of the bookmarked portion.

24. (Original) The method of claim 23, wherein the bookmarks are backed up into a remote device.

25. (Original) The method of claiming 23, wherein the bookmarks are categorized on the basis of at least one of EPG data, transcript information, captioning information or video feature information.

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26. (Original) The method of claim 23, wherein the bookmarks are accessed by at least one of web pages, mobile communications devices via a wireless connection, PDAs, and computerized watches.

27. (Original) The method of claim 23, wherein the bookmarks are stored at multiple levels and different individuals have access to the different levels.

28. (Original) The method of claim 23, wherein the bookmark is created by storing it with a first storage device onto a storage medium and is then transferred to a storage medium associated with another device.

29. (Original) The method of claim 23, wherein the item of content is deleted from the medium on which it had been stored after the bookmark is created, while retaining the bookmark.

30. (Currently amended) A method of identifying items of content, selected from the group consisting of videos, audio, images, text and combinations thereof, comprising:
receiving a bookmark signal to bookmark a portion of the content item;
in response to the bookmark signal, storing information associated with the content
and processing the content item to define a segment of the content item containing the
portion by identifying segment starting point and segment endpoint boundaries,
wherein the starting point and endpoint of the segment are based on detecting
meaningful changes of information in the audio, visual or transcript portion with
respect to the recorded content information of the content item before and after the
bookmarked portion of the content item, ~~other than a characteristic feature of the~~
~~bookmarked portion;~~
creating a bookmark comprising the segment of the content item and retaining the
segment identifying the item on a storage medium; and

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downloading the bookmarks to a user at a remote location at the request of the user, the user then using the bookmarks to identify the original item of the content from which the bookmark was created.

31. (Currently amended) A computer readable medium comprising computer-executable instructions for processing electrically stored content by a method comprising:
receiving a bookmark signal to bookmark a portion of a content item of the electrically stored content;
in response to the bookmark signal, storing information associated with the bookmarked content item and processing the content item to define a segment of the content item containing the portion by identifying segment starting point and segment endpoint boundaries, wherein the starting point and endpoint of the segment are based on detecting meaningful changes of information in the audio, visual or transcript portion of the content item with respect to the stored information before and after the bookmarked portion of the content item, other than a characteristic feature of the bookmarked portion; creating a bookmark including the segment and having sufficient identifying information to identify the bookmarked portion of the content item.

32. (Currently amended) A bookmark signal for bookmarking a portion of a content item of electrically stored content, wherein said bookmark signal is operable to cause an apparatus record information associated with a bookmark a content item and to process the content item to define a segment of the content item containing the portion by identifying segment starting point and segment endpoint boundaries and to create a bookmark including the segment and having sufficient identifying information to identify the bookmarked portion of the content item, wherein the starting point and endpoint of the segment are based on detecting meaningful changes of information in the audio, visual or transcript portion with respect to the recorded information associated with the bookmarked content, prior to and subsequent to the selected content, respectively of the content item before and after the bookmarked

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~~portion of the content item, other than a characteristic feature of the bookmarked~~
~~portion.~~